

Ch 3 Review

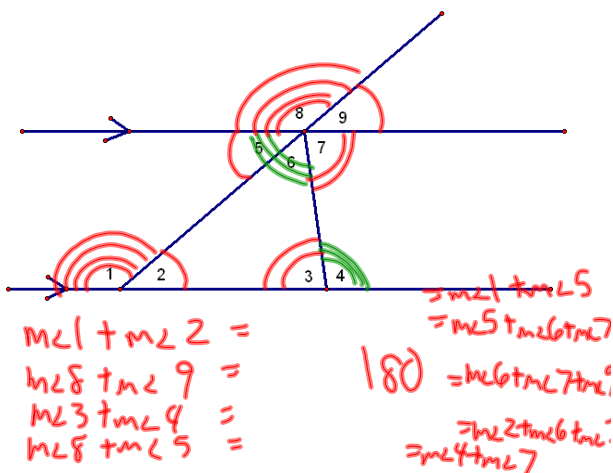
3.1

- Parallel lines
- Skew lines
- Parallel planes
- Types of angles

3.2

- If \parallel , then

- corresponding angles are \cong
- alternate int. angles are \cong
- alternate ext. angles are \cong
- s-side (cons.) int. angles are suppl.
- Algebra questions (challenging)
- Proof



3.3

- Slope

- vertical lines

- horizontal lines

- parallel lines

- perpendicular lines

same slope
opp. reciprocals

3.4

- Equations of lines

$$y = mx + b$$

$$y - y_1 = m(x - x_1)$$

$$Ax + By = C$$

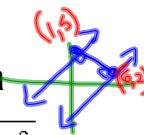
3.5

- If corresponding angles are \cong ,
- If alternate int. angles are \cong ,
- If alternate ext. angles are \cong ,
- If s-side (cons.) int. angles are suppl.,
- then the lines are \parallel .
- Algebra questions (challenging)
- Proof
- Which lines are parallel?



3.6

- Perpendiculars and distance
- between horizontal lines
- between vertical lines
- use the distance formula



$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$(6-1)^2 + (2-5)^2$$

$$25 + 9$$

$$= \sqrt{34}$$

$$\approx 5.8 \text{ units}$$

On L.L.

p167-170

#s 1-25, 30, 32, 34-40

p784 #16